

What is claimed is:

1. An optical multiplexer/demultiplexer device comprising:
 - a broadband mirror having a first reflective surface, and
 - an optical band pass filter having a second reflective surface, disposed adjacent to said broadband mirror with said second reflective surface facing said first reflective surface, wherein the space between said first and second reflective surfaces is filled with an optically transmissive media, and
 - wherein, said first and second surfaces deviate from parallel by a small angle;
 - a broadband mirror disposed on said first surface; and
 - an optical band-pass filter disposed on said second surface.
2. The device of claim 1 wherein said optically transmissive media is a glass or fused silica integrator block.
3. The device of claim 1 wherein said first and second surfaces are both planar surfaces that deviate from parallel by a first wedge angle.
4. The device of claim 3 wherein said first wedge angle is between about 4 arc minutes and about 16 arc minutes.
5. The device of claim 3 wherein said broadband mirror has a third planar surface contiguous with said first surface, and said third surface deviating from parallel to said second surface by a second wedge angle differing from said first wedge angle.
6. The device of claim 5 wherein said first wedge angle and said second wedge angle are between about 4 arc minutes and about 16 arc minutes.
7. The device of claim 1 wherein at least one of said first surface and said second surface is a non-planar surface such that the angle between said first surface and said second surface varies within a range between about 4 arc minutes and about 16 arc minutes.
8. The device of claim 1 further comprising a reflective optical device disposed adjacent to said optical band-pass filter.

9. The device of claim 8 wherein said reflective optical device comprises an array of at least two micro-electro-mechanical optical attenuators.

10. The device of claim 8 wherein said reflective optical device comprises an array of at least two electrically switchable Bragg grating attenuators.

11. The device of claim 8 wherein said reflective optical device comprises an array of at least two optical switches, which can be switched between a reflective mirror state and a transparent state.

12. The device of claim 8 further comprising a one-quarter-wave retardation plate disposed between said optical band-pass filter and said reflective optical device.

4321379 002002